

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2.32) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. MONS:039USC1; REN-01-020	SERIAL NO. 09/987,025
	APPLICANT BORONAT et al.	
	FILING DATE November 13, 2001	GROUP 1638

"RELATED" U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AK	A	2002/0069426	06 June 02	Boronat et al.			
	A	2002/0108148	08 Aug 02	Boronat et al.			
	A	2003/0148300	07 Aug 03	Valentin et al.			
	A	2003/0150015	07 Aug 03	Norris et al.			
	A	2003/0154513	14 Aug 03	van Eenennaam et al.			
	A	2003/0166205	04 Sep 03	van Eenennaam et al.			
	A	2003/0170833	11 Sep 03	Lassner et al.			
	A	2003/0176675	18 Sep 03	Valentin et al.			
	A	2003/0213017	13 Nov 03	Valentin et al.			
	A	2004/0018602	29 Jan 04	Lassner et al.			
	A	2004/0045051	04 Mar 04	Norris et al.			

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AK	A	4,727,219	23 Feb 88	Brar et al.			
	A	5,304,478	19 Apr 94	Bird et al.			
	A	5,429,939	04 Jul 95	Misawa et al.			
	A	5,432,069	11 Jul 95	Grüniger et al.			
	A	5,545,816	13 Aug 96	Ausich et al.			
	A	5,618,988	08 Apr 97	Hauptmann et al.			
	A	5,684,238	04 Nov 97	Ausich et al.			
	A	5,693,507	02 Dec 97	Daniell et al.			
	A	5,750,865	12 Mar 98	Bird et al.			
	A	5,792,903	11 Aug 98	Hirschberg et al.			
	A	5,876,964	02 Mar 99	Croteau et al.			
	A	5,908,940	01 Jun 99	Lane et al.			
	A	6,281,017	28 Aug 01	Croteau et al.			
	A	6,541,259	01 Apr 03	Lassner et al.			

FOREIGN PATENT DOCUMENTS

Examiner <i>Russell Kallis</i>	Date Considered 6/8/04
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
PK	B	2,339,519	17 Feb 00	Canada			Eng Version of WO 00/08169
	B	2,343,919	30 Mar 00	Canada			Eng Version of WO 00/17233
	B	2,372,332	02 Nov 00	Canada			Eng Version of WO 00/65036
	B	1 033 405 A2	06 Sep 00	EPO			
	B	0 674 000 A2	27 Sep 95	EPO			
	B	0 531 639 A2 & A3	17 Mar 93	EPO			
	B	0 763 542 A2	19 Mar 97	EPO			
	B	1 063 297 A1	27 Dec 00	EPO			NO (DE)
	B	2 778 527		FR			YES
	B	DE 198 35 219 A1	05 Aug 98	German/English			YES=CA2339519
	B	560,529	07 Apr 44	Great Britain			
	B	WO 00/01650	13 Jan 00	PCT			
	B	WO 00/08169	17 Feb 00	PCT			YES=CA2339519
	B	WO 00/08187	17 Feb 00	PCT			
	B	WO 00/10380	02 Mar 00	PCT			
	B	WO 00/11165	02 Mar 00	PCT			
	B	WO 00/14207	16 Mar 00	PCT			
	B	WO 00/22150 A3	20 Apr 00	PCT			
	B	WO 00/28005	18 May 00	PCT			
	B	WO 00/32757 A2 & A3	08 Jun 00	PCT			
	B	WO 00/61771	19 Oct 00	PCT			
	B	WO 00/63389	26 Oct 00	PCT			
	B	WO 00/63391	26 Oct 00	PCT			
	B	WO 00/68393	16 Nov 00	PCT			
	B	WO 01/04330	18 Jan 01	PCT			
	B	WO 01/09341	08 Feb 01	PCT			
PK	B	WO 01/12827	22 Feb 01	PCT			

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RK	B	WO 01/21650	29 Mar 01	PCT			
	B	WO 01/44276	21 Jun 01	PCT			
	B	WO 01/62781	30 Aug 01	PCT			Partial
	B	WO 01/79472	25 Oct 01	PCT			
	B	WO 01/88169 A2 & A3	22 Nov 01	PCT			
	B	WO 02/00901 A1	03 Jan 02	PCT			YES
	B	WO 02/29022	11 Apr 02	PCT			
	B	WO 02/31173	18 Apr 02	PCT			YES
	B	WO 02/33060	25 Apr 02	PCT			
	B	WO 02/46441	13 Jun 02	PCT			
	B	WO 02/072848	19 Sep 02	PCT			
	B	WO 02/089561	14 Nov 02	PCT			
	B	WO 03/034812	01 May 03	PCT			
	B	WO 03/047547	12 Jun 03	PCT			
	B	WO 91/02059	21 Feb 91	PCT			
	B	WO 91/09128	27 Jun 91	PCT			
	B	WO 91/13078	05 Sep 91	PCT			
	B	WO 93/18158	16 Sep 93	PCT			
	B	WO 94/11516	26 May 94	PCT			
	B	WO 94/12014	09 Jun 94	PCT			
	B	WO 94/18337	18 Aug 94	PCT			
	B	WO 95/08914	06 Apr 95	PCT			
	B	WO 95/18220	06 Jul 95	PCT			Abstract
	B	WO 95/23863	08 Sep 95	PCT			
	B	WO 95/34668	21 Dec 95	PCT			
	B	WO 96/02650	01 Feb 96	PCT			
	B	WO 96/06172	29 Feb 96	PCT			
	B	WO 96/13149	09 May 96	PCT			
RK	B	WO 96/13159	09 May 96	PCT			

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RK	B	WO 96/36717 A2 & A3	21 Nov 96	PCT			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	B	WO 96/38567	05 Dec 96	PCT			US equivalent
	B	WO 97/17447	15 May 97	PCT			
	B	WO 97/27285	31 Jul 97	PCT			
	B	WO 97/49816	31 Dec 97	PCT			
	B	WO 98/04685	05 Feb 98	PCT			
	B	WO 98/06862	19 Feb 98	PCT			
	B	WO 98/18910	07 May 98	PCT			
	B	WO 99/04021	28 Jan 99	PCT			
	B	WO 99/04622	04 Feb 99	PCT			
	B	WO 99/06580	11 Feb 99	PCT			
	B	WO 99/07867	18 Feb 99	PCT			
	B	WO 99/19460	22 Apr 99	PCT			
	B	WO 99/55889	04 Nov 99	PCT			
RK	B	WO 99/58649	18 Nov 99	PCT			

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RK	c	ADDLESEE <i>et al.</i> , "Cloning, sequencing and functional assignment of the chlorophyll biosyntheses gene, <i>chlP</i> , of <i>Synechocystis</i> sp. PCC 6803", FEBS Letters 389 (1996) 126-130
RK	c	ARANGO <i>et al.</i> , "Tocopherol synthesis from homogenisate in <i>Capsicum annuum</i> L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J., 336:531-533 (1998)
RK	c	ARIGONI <i>et al.</i> , "Terpenoid biosynthesis from 1-deoxy-D-xylulose in higher plants by intramolecular skeletal rearrangement", Proc. Natl. Acad. Sci. USA, 94:10600-10605 (1997)
RK	c	BAKER <i>et al.</i> , "Sequence and characterization of the <i>gcpE</i> gene of <i>Escherichia coli</i> ", FEMS Microbiology Letters, 94:175-180 (1992)
RK	c	BAYLEY <i>et al.</i> , "Engineering 2,4-D resistance into cotton," Theor Appl Genet, 83:645-649 (1992)
RK	c	BENTLEY, R., "The Shikimate Pathway - A Metabolic Tree with Many Branches," Critical Reviews™ in Biochemistry and Molecular Biology; Vol. 25, Issue 5, 307-384 (1990)
RK	c	BEVAN, M., "Binary <i>Agrobacterium</i> vectors for plant transformation", Nucleic Acids Research, 12:8711-8721 (1984)
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RK	c	BORK <i>et al.</i> , "Go hunting in sequence databases but watch out for the traps", TIG 12, 10:425-427 (October 1996)
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RK	c	BOWIE <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", Science, 247:1306-1310 (1990)
RK	c	BRAMLEY <i>et al.</i> , "Biochemical characterization of transgenic tomato plants in which carotenoid synthesis has been inhibited through the expression of antisense RNA to pTOM5," The Plant Journal, 2(3), 343-349 (1992)
RK	c	BREITENBACH <i>et al.</i> , "Expression in <i>Escherichia coli</i> and properties of the carotene ketolase from <i>Haematococcus pluvialis</i> ," FEMS Microbiology Letters 140, 241-246 (1996)
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RK	c	CAHOON <i>et al.</i> , "Production of Fatty Acid Components of Meadowfoam Oil in Somatic Soybean Embryos," Plant Physiology, 124:243-251 (2000)
RK	c	CHAUDHURI <i>et al.</i> , "The purification of shikimate dehydrogenase from <i>Escherichia coli</i> ," Biochem. J., 226:217-223 (1985)
RK	c	CHENG <i>et al.</i> , "Highly Divergent Methyltransferases Catalyze a Conserved Reaction in Tocopherol and Plastoquinone Synthesis in Cyanobacteria and Photosynthetic Eukaryotes", The Plant Cell, 15:2343-2356 (2003)
RK	c	COLLAKOVA <i>et al.</i> , "Isolation and Functional Analysis of Homogenisate Phytyltransferase from <i>Synechocystis</i> sp. PCC 6803 and <i>Arabidopsis</i> ", Plant Physiology, 127:1113-1124 (2001)
RK	c	COLLAKOVA <i>et al.</i> , "Homogenisate Phytyltransferase Activity is Limiting for Tocopherol Biosynthesis in <i>Arabidopsis</i> ", Plant Physiology, 131:632-642 (Feb. 2003)
RK	c	COLLAKOVA <i>et al.</i> , "Isolation and Characterization of Tocopherol Prenyl Transferase From <i>Synechocystis</i> and <i>Arabidopsis</i> ", Poster Abstract see REN-01-026
RK	c	COOK <i>et al.</i> , "Nuclear Mutations affecting plastoquinone accumulation in maize", Photosynthesis Research, 31:99-111 (1992)
RK	c	CUNILLERA <i>et al.</i> , "Characterization of dehydrodolichyl diphosphate synthase of <i>Arabidopsis thaliana</i> , a key enzyme in dolichol biosynthesis", FEBS Letters, 477:170-174 (2000)
RK	c	d'AMATO <i>et al.</i> , "Subcellular localization of chorismate-mutase isoenzymes in protoplasts from mesophyll and suspension-cultured cells of <i>Nicotiana glauca</i> ," Planta, 162:104-108 (1984)
RK	c	DOERKS <i>et al.</i> , "Protein annotation: detective work for function prediction", TIG, 14:248-250 (1998)
RK	c	d'HARLINGUE <i>et al.</i> , "Plastid Enzymes of Terpenoid Biosynthesis, Purification and Characterization of γ -Tocopherol Methyltransferase from <i>Capsicum Chromoplasts</i> ," The Journal of Biological Chemistry, Vol. 260, No. 28, pp. 15200-15203, December 5, 1985

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RK	c	DUNCAN <i>et al.</i> , "The overexpression and complete amino acid sequence of <i>Escherichia coli</i> 3-dehydroquinase", Biochem. J., 238:475-483 (1986)
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RK	c	ELLIOTT, Thomas, "A Method for Constructing Single-Copy <i>lac</i> Fusions in <i>Salmonella typhimurium</i> and Its Application to the <i>hemA-prfA</i> Operon", Journal of Bacteriology, 174:245-253 (1992)
RK	c	EISENREICH <i>et al.</i> , "The deoxyxylulose phosphate pathway of terpenoid biosynthesis in plants and microorganisms", Chemistry & Biology, 5(9):R221-R233 (1998)
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RK	c	FIEDLER <i>et al.</i> , "The formation of homogentisate in the biosynthesis of tocopherol and plastoquinone in spinach chloroplasts", Planta, 155:511-515 (1982)
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RK	c	FRAY <i>et al.</i> , "Constitutive expression of a fruit phytoene synthase gene in transgenic tomatoes causes dwarfism by redirecting metabolites from the gibberellin pathway", The Plant Journal, 8(5):693-701 (1995)
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RK	c	FURUYA <i>et al.</i> , "Production of Tocopherols by Cell Culture of Safflower", Phytochemistry, 26(10):2741-2747 (1987)
RK	c	GARCIA <i>et al.</i> , "Subcellular localization and purification of a <i>p</i> -hydroxyphenylpyruvate dioxygenase from cultured carrot cells and characterization of the corresponding cDNA", Biochem. J., 325:761-769 (1997)
RK	c	GAUBIER <i>et al.</i> , "A chlorophyll synthetase gene from <i>Arabidopsis thaliana</i> ", Mol. Gen. Genet., 249:58-64 (1995)
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RK	c	GRABSE <i>et al.</i> , "Loss of α -tocopherol in tobacco plants with decreased geranylgeranyl reductase activity does not modify photosynthesis in optimal growth conditions but increases sensitivity to high-light stress", <i>Planta</i> , 213:620-628 (2001)
RK	c	HECHT <i>et al.</i> , "Studies of the nonmevalonate pathway to terpenes: The role of the GcpE (IspG) protein", <i>PNAS</i> , 98(26):14837-14842 (2001)
RK	c	HERRMANN, K.M., "The Shikimate Pathway as an Entry to Aromatic Secondary Metabolism", <i>Plan Physiol.</i> , 107:7-12 (1995)
RK	c	HERZ <i>et al.</i> , "Biosynthesis of terpenoids: YgbB protein converts 4-diphosphocytidyl-2C-methyl-D-erythritol 2-phosphate to 2C-methyl-D-erythritol 2,4-cyclodiphosphate", <i>Proc. Natl. Acad. Sci. USA</i> , 97(6):2486-2490 (2000)
RK	c	KAJIWARA <i>et al.</i> , "Isolation and functional identification of a novel cDNA for astaxanthin biosynthesis from <i>Haematococcus pluvialis</i> , and astaxanthin synthesis in <i>Escherichia coli</i> ", <i>Plant Molecular Biology</i> , 29:343-352 (1995)
RK	c	KANEKO <i>et al.</i> , "Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120", <i>DNA Research</i> , 8(5):205-213 (2001)
RK	c	KEEGSTRA, K., "Transport and Routing of Proteins into Chloroplasts", <i>Cell</i> , 56(2):247-253 (1989)
RK	c	KELLER <i>et al.</i> , "Metabolic compartmentation of plastid prenilylipid biosynthesis Evidence for the involvement of a multifunctional geranylgeranyl reductase", <i>Eur. J. Biochem.</i> , 251:413-417 (1998)
RK	c	KISHORE <i>et al.</i> , "Amino Acid Biosynthesis Inhibitors as Herbicides", <i>Ann. Rev. Biochem.</i> , 57:627-663 (1988)
RK	c	KUMAGAI <i>et al.</i> , "Cytoplasmic inhibition of carotenoid biosynthesis with virus-derived RNA", <i>Proc. Natl. Acad. Sci. USA</i> , 92:1679-1683 (1995)
RK	c	KUNTZ <i>et al.</i> , "Identification of a cDNA for the plastid-located geranylgeranyl pyrophosphate synthase from <i>Capsicum annuum</i> : correlative increase in enzyme activity and transcript level during fruit ripening", <i>The Plant Journal</i> , 2(1):25-34 (1992)
RK	c	LI <i>et al.</i> , "Identification of a maize endosperm-specific cDNA encoding farnesyl pyrophosphate synthetase", <i>Gene</i> , 171:193-196 (1996)
RK	c	LINTHORST <i>et al.</i> , "Constitutive Expression of Pathogenesis-Related Proteins PR-1, GRP, and PR-S in Tobacco Has No Effect on Virus Infection", <i>The Plant Cell</i> , 1:285-291 (1989)
RK	c	LOIS <i>et al.</i> , "Cloning and characterization of a gene from <i>Escherichia coli</i> encoding a transketolase-like enzyme that catalyzes the synthesis of D-1-deoxyxylulose 5-phosphate, a common precursor for isoprenoid, thiamin, and pyridoxol biosynthesis", <i>Proc. Natl. Acad. Sci. USA</i> , 95(5):2105-2110 (1998)
RK	c	LOPEZ <i>et al.</i> , "Sequence of the <i>bchG</i> Gene from <i>Chloroflexus aurantiacus</i> : Relationship between Chlorophyll Synthase and other Polyprenyltransferases", <i>Journal of Bacteriology</i> , 178(11):3369-3373 (1996)
RK	c	LOTAN <i>et al.</i> , "Cloning and expression in <i>Escherichia coli</i> of the gene encoding β -C-4-oxygenase, that converts β -carotene to the ketocarotenoid canthaxanthin in <i>Haematococcus pluvialis</i> ", <i>FEBS Letters</i> , 364:125-128 (1995)
RK	c	MAHMOUD <i>et al.</i> , "Metabolic engineering of essential oil yield and composition in mint by altering expression of deoxyxylulose phosphate reductoisomerase and menthofuran synthase", <i>PNAS</i> , 98(15):8915-8920 (2001)
RK	c	MARSHALL <i>et al.</i> , "Biosynthesis of Tocopherols: A Re-Examination of the Biosynthesis and Metabolism of 2-Methyl-6-Phytyl-1,4-Benzquinol", <i>Phytochemistry</i> , 24(8):1705-1711 (1985)

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RK	c	MISAWA <i>et al.</i> , "Expression of an <i>Erwinia</i> phytoene desaturase gene not only confers multiple resistance to herbicides interfering with carotenoid biosynthesis but also alters xanthophyll metabolism in transgenic plants", <i>The Plant Journal</i> , 6(4):481-489 (1994)
RK	c	McCONNELL <i>et al.</i> , "Role of <i>Phabulosa</i> and <i>Phavolula</i> in determining radial patterning in shoots", <i>Nature</i> , 411(6838): 709-713 (2001)
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